Ohio/Penn DX Bulletin
Editor: Tedd Mirgliotta, KB8NW
"DXer's Tool of Excellence"

OPDX Bulletin 1337 October 30, 2017

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Editor Tedd Mirgliotta, KB8NW
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EDITOR'S SPECIAL NOTES (by Tedd, KB8NW)

\This week's bulletin was sent out earlier than normal to accommodate the late CQWW DX SSB Contest announcements. Also, we wanted to provide the readers with a consolidated listing of the CQWW DX SSB Contest participants.

DXCC COUNTRY/ENTITY REPORT

According to the AR-Cluster Network for the week of Friday, 20th/October, through Friday, 27th/October there were 232 countries active. Countries available: 3A, 3B8, 3C0, 3D2, 3DA, 3V, 3W, 3X, 4J, 4L, 4O, 4S, 4U1I, 4W, 4X, 5A, 5B, 5H, 5R, 5T, 5U, 5V, 5W, 5Z, 6W, 6Y, 7X, 8P, 8R, 9A, 9G, 9H, 9J, 9K, 9M2, 9M6, 9N, 9Q, 9V, 9X, 9Y, A3, A4, A5, A6, A7, A9, AP, BV, BY, C2, C3, C6, C9, CE, CE0Y, CE9, CM, CN, CP, CT, CT3, CU, CX, D2, D4, DL, DU, E4, E5/s, E7, EA, EA6, EA8, EA9, EI, EK, EP, ER, ES, ET, EU, EX, EY, EZ, F, FG, FK, FM, FO, FO/m, FP, FR, FY, G, GD, GI, GJ, GM, GU, GW, H4, H40, HA, HB, HB0, HC, HH, HI, HK, HK0/a, HL, HP, HR, HS, HZ, I, IS, J5, J6, J8, JA, JD/m, JD/o, JT, JY, K, KG4, KH0, KH2, KH6, KL, KP2, KP4, LA, LU, LX, LY, LZ, OA, OD, OE, OH, OH0, OK, OM, ON, OX, OY, OZ, P2, P4, PA, PJ2, PJ4, PJ5, PY, PZ, S0, S2, S5, S7, S9, SM, SP, ST, SU, SV, SV/a, SV5, SV9, T2, T7, T8, TA, TF, TG, TI, TK, TN, TR, TY, TZ, UA, UA2, UA9, UK, UN, UR, V2, V3, V4, V5, V7, V8, VE, VK, VK9C, VK9N, VK9X, VP2M, VP2V, VP5, VP8, VP8/h, VP9, VR, VU, XE, XT, XU, XW, XX9, YA, YB, YI, YL, YN, YO, YU, YV, Z2, Z3, ZA, ZB, ZD7, ZD8, ZF, ZL, ZP, ZS, ZS8

PLEASE NOTE: The report "could" contain "Pirate/SLIM" operations or more likely a "BUSTED CALLSIGN". As always, you never know - "Work First Worry Later".

3C0/3C1, ANNOBON ISLAND & EQUATORIAL GUINEA (Update). As this was being written on Wednesday, operators Yuris/YL2GM and Kaspars/YL3AIW have ended their 3C0L Annobon Island (AF-039) operation early October 25th, and were at the Annobon airport waiting for their departure back to Malabo. The update states, "Will see what's up in Malabo, as they have missed their

flight home which was scheduled for October 23rd. 30000 QSOs in the log. They went QRT around 05:30 GMT to pack the remaining antennas and other stuff. If flight will be postponed again, they will put back the small vertical and continue." QSL via YL2GN direct or ClubLog's OQRS (direct or Bureau). Look for the logs to be uploaded to LoTW six months after their operations. Updates are being posted to:

http://www.lral.lv/3c0l_3c1l

LAST MINUTE UPDATE: October 26th [edited] -- "Plans regarding 3C1L have changed. Yuris and Kaspars are in Malabo, Equatorial Guinea, and Yuris says that they plan to continue as 3C1L. He is looking for proper QTH. But they are not QRV yet. It was a pirate playing on the air earlier this evening on 80m band. The spare 2nd K3 have arrived, but has not yet passed customs. They still haven't managed to get to the Internet to upload the logs. Date of flying home is not known yet.

Regarding K3s - those who posted negative comments on DX-Cluster about failing K3s, please bear in mind the conditions they were being operated at 3C0 (jumping mains voltage 120-180 V). If you dare to test transceiver, or even better - two of them - of your beloved brand in similar conditions for about 12 days, then lets compare the results."

4S, SRI LANKA (Update/Reminder). Members of the Ukrainian DXpeditioners Team [UDXT] (Alex/UT5UY and Roman/UR0MC) will be active as 4S7AYG from Sri Lanka (AS-003) until October 31st. Activity will be on 160-10 meters using CW, SSB and the Digital modes. Look for them to be in the CQWW DX SSB Contest (October 28-29th) as a Multi-Single (Low-Power?) entry. QSL via M0URX or OQRS (direct and Bureau). Complete information is available at: https://www.qrz.com/db/4S7AYG

4U1, AUSTRIA. A member of the International Amateur Radio Contest DX Club (ARCDXC) will be active as 4U1A during the CQWW DX SSB Contest (October 28-29th) as a Single-Op/All-Band/High-Power entry. QSL via UA3DX. Visit the ARCDXC Web page at: http://www.cqdx.ru/4u1a

4W, TIMOR LESTE (Update). Thomas, OZ1AA, will be active as 4W/OZ1AA from Dili, East Timor (OC-148), between now and November 7th. Activity will be on 40-10 meters using mainly CW and some FT8. Equipment will be a Kenwood TS-590SG (100w) into a homemade multi-band vertical. He announced this week that he will be in the CQWW DX SSB Contest (October 28-29th) as a Single-Op/All-Band/Low-Power entry. QSL via OZ1ACB, ClubLog's OQRS or LoTW.

7Q, MALAWI (Update). Members of the EIDX Group (who brought you 9N7EI earlier this year) will be active as 7Q7EI from an ideal location on the shores of Lake Malawi between March 21st and April 3rd, 2018. There will be a team of 14 operators. Operators mentioned are Dave/EI9FBB, Jeremy/EI5GM, Declan/EI9HQ, Pat/EI9HX, Enda/EI2II, Thos/EI2JD, Alain/EI2KM (F8FUA), Jim/EI4HH, Padraic/EI5IX, Dave/EI4BZ, Peter/EI4GZB and Alain/F5JTV. Activity will be on 160-10 meters using CW, SSB and RTTY. They also plan to be in the CQWW WPX SSB Contest (March 24-25th). There are four ways to QSL. QSL via M0OXO, direct or via his OQRS (direct or Bureau). Entire log will not be uploaded to LoTW for possibly up to 3 months. The team now has a Web page at: http://www.7q7ei.com

9K, KUWAIT. Operators Hamad/9K2HN, Khalid/9K2HK, Essa/9K2HQ, Osama/9K2OD, Muhammad/9K2NO, Khalid/9K2HK, Khalid/A61BK, Marco/HB9CAT, Nick/HB9EFK and Carlo/IK1HJS will be active as 9K2HN during the CQWW DX SSB Contest (October 28-29th) as a Multi-Single entry. QSL via LoTW or Club's OQRS. Visit the home page at: http://www.9k2hn.com

A4, OMAN. Members of the Royal Omani Amateur Radio Society (ROARS) will activate their contest station, A44A, in Muscat during the CQWW DX SSB Contest (October 28-29th) as a Multi-Multi entry. QSL via A47RS. Operators mentioned are Issa/A41NW, Khalid/A41CK, Ahmed/A41NH, MOHAMMED/A41NN, Sami/A41OP, Ahmed/A41OR, Amine/A41PG, Mudhfer/A41RN, Aziz/A41RO, Talal/A41SS, San/A45TT, martin/A65DC, Paul/A65DR, Chad/WE9V, Mike/K9NW, Flo/OE3FTA and Philipp/DK6SP.

BM0, TAIWAN. Operators Ken/BV1EL, Koji/JL3RDC, Masa/JN3MXT, Kushi/JP3PZG and Ken/BM2JCC (JP1RIW) will be active as BM0DX from the Taipei Contest Club (CTARL) in New Taipei City during the CQWW DX SSB Contest (October 28-29th) as a Multi-Single entry. QSL via BM2JCC.

C2, NAURU. Three members of the Yamato Amateur Radio Club will be active from Nauru, with their own individual callsigns, between November 8-14th. Operators are Kuni/JA8VE (C21VE), Mat/JA1JQY (C21JY) and Kaoru/JA3MCA (C21MA). Activity will be all HF bands from 80-10 meters using CW, SSB and RTTY. QSL via each operator's home callsign or by the Bureau.

DA0, GERMANY. Operators Helmut/DK6WL and Christian/DL1MGB will be using the special callsign DA0WRTC during the CQWW DX SSB Contest (October 28-29th) as a Multi-Single entry. QSL via DJ9MH.

GJ, JERSEY. Members of the Jersey Contest Group will be active as GJ2A from Jersey Island (EU-013) during the CQWW DX SSB Contest (October 28-29th) as Multi-2 entry. QSL via LoTW, direct to GJ3DVC or the ClubLog's OQRS.

IOTA NEWS.....

OC-216/ OC-234. (Update) Operators Mike/AB5EB, Mike/AD5A and Craig/VK5CE will be active as VK9AR from Ashmore Reef between November 7-10th. Activity will be on 40-15 meters with three stations on the air at the same time; two with amps. QSL via VK5CW, direct or by the Bureau or ClubLog's OQRS. For more details and updates, see: https://ashmorereef.wordpress.com
OCTOBER 25th: (UPDATE - de Craig/VK5CE -- One Week To Go) [edited] Mike/AB5EB, Mike/AD5A and Craig/VK5CE have all paid for the boat in full to Ashmore Reef, this was the most expensive component of the DXpedition. The boat has confirmed the dates and times of our journey. We depart Broome WA on the morning of Sunday November 5th. We arrive at Ashmore Reef around 0500 UTC or noon local time on Tuesday, November 7th. We hope to be on

air as soon as we can in the afternoon, please be aware there is no infrastructure on the reef and we need to bring equipment via zodiac. The biggest issue is the weather with temperatures going to be over 35C and very humid. It'll be slow going.

We need to depart Ashmore Reef by 0100 UTC or 9am local on Saturday, November 11th. As we are only allowed to be on the island during dawn in the morning to dusk in the late afternoon/ early evening, it means our operating times are around 2100 to 1000 UTC. See the "PROPAGATION" page on our website to show you how to get in the log and where we will be. I spoke on the phone with the Commonwealth Government on Monday and the dawn to dusk rules still apply. If there are problems with tides or weather, then it may mean we are able to be on the island longer, but you can't rely on that happening.

Prior to departing for OC-198 I freighted up some equipment to Broome that I didn't need for VK5CE/8 such as a Honda Generator, Dunestar band pass filters, etc. These have all arrived now. After the OC-198 DXpedition, on the way back when I reached Alice Springs I freighted the second Honda Generator to Broome and its currently in transit. This means we can have a high power SSB station, high power CW station and 100W SSB/CW station on the air at the same time.

At the end of next week we all jump on a plane and meet up in Perth WA on Friday, November 3rd, and we are on the same flight up to Broome later that day.

So not long now. On behalf of Mike Sr. and Mike Jr. and myself, we look forward to giving you another rare IOTA....hopefully a few days after you also work those crazy rockhoppers in Liberia!!!! Cheers Craig

LAST MINUTE UPDATE: Look for operators Mike/AB5EB, Mike/AD5A and Craig/VK5CE to conduct a quick 4 hour operation from Browse Island (OC-234) on their journey back to mainland Australia. Browse Island OC-234 is a small 35 acre uninhabited island which is an important nesting site for Green Turtles and many seabirds. It was activated only once before as VK6BM back in 2000 and is claimed by 10.2% of chasers. The trio will use the callsign VK9AR/6 around 2000 UTC on Saturday, November 11th.

SA-078. Operators YL Núria/EA3WL and Josep/EA3BT inform OPDX, "After the great success of our last operations from Corn Island (NA-013) in Nicaragua as H74B and H74W, and Bijagos Islands (AF-020) in Guinea-Bissau as J5B and J5W, we are pleased to finally announce our next operation." Look for Josep and Núria to be active as 5K1B from Mucura Island (San Bernardo Islands), Colombia, between November 21-28th. Last operation from this reference was in 2008 (more than 9 years ago !!!!). Activity will be on 80-6 meters using CW, SSB and RTTY. They will have 1 full station: Icom IC-7300, Expert 1.3 FA amp into a EAxbeam (20-6m) and wire dipoles (30/40/80m). Watch QRZ.com for updates. Also available the QSO Director Tool for checking the online logs direct in real time , if internet works properly, of course! QSL via EA3BT. They will also use Clublog's OQRS (preferred). Both operators will be on the air as much as possible.

ISWL CALLSIGNS (For November). The following ISWL club callsigns will be used throughout the month of November 2017:

GX4BJC/A - Operated from Clacton on Sea, in Essex, by George, G1IPU, (/A WAB Square TM11 - England, IOTA EU-005, WLOTA 1841). George will also use GX4BJC/P from various locations throughout the month. His /P WAB square will be given if requested.

MS1SWL/A - Operated from Falkirk, in Scotland, by Brian, GM4XQJ, (/A WAB Square NS97 - Scotland, IOTA EU-005, WLOTA 1234).

ALL QSLs will be handled by Herbie, G6XOU, and NOT the individual operator. The I.S.W.L. is a member of the European PSK Club. All QSL info is on or or or via
. NO LoTW.
I.S.W.L. Awards are available to all Hams and SWLs, see for full details. eQSL.cc cards ARE welcomed for their awards.

LU, ARGENTINA (Special Event). Members of the Radio Club QRM Belgrano (LU4AAO) will activate special event station LU4AAO/D between 1300z, November 4th, and 0300z, November 5th, from Museo Antartico near Buenos Aires, to celebrate the Night of Museums. Operations will be on 80/40 meters SSB and 20 meters JT65/FT8/CW. QSL via LU4AAO, direct, by the Bureau or eQSL. For more details, see:
http://lu4aao.org/Activacion_Museo_Antartico.htm

OH0, ALAND ISLAND. Kim, OH6KZP, will be active (leisurely operation) as OH0X from Brando Island (EU-002) during the CQWW DX SSB Contest (October 28-29th) as a Single-Op/All-Band/High-Power entry. QSL via LoTW or to OH2TA.

P4, ARUBA. Yuri, VE3DZ, is now active as P40T until October 31st. Activity will include the CQWW DX SSB Contest (October 28-29th) as a Single-Op/All-Band/High-Power entry. QSL via VE3DZ.

PROPAGATION FORECAST/REPORT (October 30th-November 5th).....

Oct/30th AN	Nov/02nd AN	Nov/04th AN
Oct/31st AN	Nov/03rd AN	Nov/05th AN
Nov/01st AN		

SOLAR REFERENCE KEYS/INDEXES AND GEOMAGNETIC REFERENCE

NORMALITY	GEOMAG	K Values	Alpha
AN - Above Normal	Quiet	K=0-1	0-7
HN - High Normal	Unsettled	K=2	8-15
LN - Low Normal	Active	K=3	16-29
BN - Below Normal	Minor Storm	K=4	30-49

DIS - Disturbed	Major Storm	K=5	50-99
VRY DIS - Very Disturbed	Severe Storm	K=6-9	100-400

REALTIME BAND CONDITIONS WEB SITE :
The purpose of this experimental Web site is to provide 24-7-365 actual (REALTIME) band condition information to CW QRPp, QRPe and CW/SSB for Contesters interested in increasing their scores. It can also be of benefit to other Radio Amateurs to determine band conditions for Nets and casual QSO's. This information is NOT based on any software predictions or any kind of satellite based readings. It is based on a new Ionospheric sounding method called "HF Ionospheric Interferometry" which operates very similarly to the PolSAR system used by NASA.

Also, check out the VOACAP predication Web page at:
http://www.voacap.com/prediction.html
A daily HF radio wave propagation forecast can be found at:
https://www.facebook.com/thomasfranklingiellaw4hm
Also on Twitter: https://twitter.com/@GiellaW4hm

QSL INFO AND NEWS.....
QSL-INFO from DB0SDX by Lothar, DL1SBF...
(Will return next week!)

QSLs for 7Q7BP, 5X1P, 9Q5MRC, 9U5MRC, C91MR, C91MR/3, C96MR, C97MR, G3MRC, G3MRC/C9, G3MRC/9Q5, 9X5/G3MRC, Z38/G3MRC, 5H/9Q5MRC and ZB2/G3MRC go to QSL Manager Phil, G3SWH. He reports, "As you may heard already, Joe, became a Silent Key in May 2017 and I have been passed copies of his various logs and a number of outstanding QSL requests by his widow, Janet, 7Q7YL. Please visit my Web page at for where you can search the logs of many of the stations that I manage."

V55A & V51Q QSL ROUTE CHANGE. Dan, N4GNR, reports, "After waiting over a year for cards, and especially LOGS, I am forced to remove V55A and V51Q as their QSL manager. So NO LOGS, NO CARDS -- I am unable to answer any request for these two DX stations. I am so sorry it came to this... 73, Good Luck Dan N4GNR"

QSLS RECEIVED VIA LoTW: EA6VQ, ER1MM, F5BZB, JR6EZE, MI0JZZ, OH9SCL, OK4K, P40EU, PJ4/NT5V, PT9ZE, RI1ANO (AN-010), RI1F (EU-190), SV1CIF, SV9CVY, TO0R, VI6BLT50, VK0IR, VK9CZ, VK9MAV (OC-267), VP5/W5CW and YI3WHR

QSLS RECEIVED VIA MAIL: 3G9JA, 5X1P and RI1ON (EU-066)

QSLS RECEIVED VIA THE BUREAU: 1A0KM, 4W0VB, E40VB, EX/UA4WHX, EY8/UA4WHX, and UN/UA4WHX

STANDARD TIME. Remember to change your clocks next weekend! Countries who

observe Daylight Saving Time (DST), which took place on Sunday, March 13th, are now expected to move their "local clocks" backward 1 hour on Sunday, November 5th, from 2:00 AM local time to 1:00 AM. In 2018, Daylight Saving Time (DST) will again go into effect on Sunday, March 11th, at 2:00 AM local time. For the history and details about ST and DST, as well as an interesting map of the world (showing the countries who observe DST), see: http://en.wikipedia.org/wiki/Standard_time
http://en.wikipedia.org/wiki/Daylight_saving_time
http://www.timeanddate.com/time/dst/2018.html
ADDED NOTE: Hopefully, all amateur radio operators know NOT to change their GMT/UTC/ZULU clocks. However, since most operators usually set their computers to local time, some may have to change their settings on "some" ham radio software (ex. logging, propagation, DXTelnet, etc..) programs.

TF, ICELAND. Siggi, TF3CW, will be active during the CQWW DX SSB Contest (October 28-29th) as Single-Op/Single-Band (40m) entry. QSL via LX1NO direct only. No QSL via Bureau.

V3, BELIZE (Reminder). Robert, DL7VOA, and his XYL will be following the tracks of the Maya in Central America with their final recreational stay in Belize. Robert has written permission to use the special callsign V34AO from Hopkins in Belize between November 18-30th. The QTH will be directly on the beach of Hopkins with every QSO made viewing over the Caribbean Sea. As usual, operating will take place in "holiday style" mainly on CW during the local evening and night hours (maybe some SSB, no digital). Robert will have his little Elecraft K2 with him running 100 watts into a 10m fiberglass pole with vertical dipoles on 10/12/15/17/20m, ground-planes for 30m/40m or an Inverted L for 80m. He will join the CQWW DX CW Contest (November 25-26th) as a Single-Op/All-Band/Low-Power, with the only focus on having fun in pile-ups. He states, "The contest weekend will be (mostly) mine, but during the rest of the time please understand that during day time there are other important holiday activities to be undertaken with my wife like relaxing, snorkeling, flying my drone, etc. instead of conducting a 100% DXpedition (which does not mean that I never show up on the bands during day time). All information (including a link with exact GPS coordinates and maybe later also some drone videos) can be found on the Web site: http://www.qrz.com/db/dl7voa
QSLs V34AO via DL7VOA, by the Bureau or direct.

V4, ST. KITTS (Update/Change). Gary, G0FWX, will once again be active from the QTH of John, V47JA, at Calypso Bay, St. Kitts (NA-104), but this time as V47FWX (not V4/G0FWX) between November 8-15th. Activity will be holiday style (in between sunbathing and the casino) on various HF bands. QSL via M0URX or the OQRS.

VK9M, MELLISH REEF (Reminder/Update). Operators Dietmar/DL3DXX, Morten/LB8DC, Robert/N7QT (Team Leader), Brian/N9ADG, Eric/SM1ALH, Hawk/SM5AQD (Co-Team Leader), Lasse/SM5GLC and David/W5XU (recently added) will be active as VK9MA from Mellish Reef (OC-072) between November 3-16th. Activity will be from Heralds-Beacon Islet, the only permanent land in the reef, on 160-10 meters using CW, SSB and RTTY. They plan to have five stations on the air. QSL via N7QT, direct, by the Bureau, ClubLog's OQRS (STRONGLY

RECOMMENDED), LoTW or eQSL. All QSOs will be uploaded to LoTW and eQSL shortly after the operation. For more details and updates, see:
https://vk9ma.com
On October 24th, Rob/N7QT and Brian/N9ADG arrived in Cairns towing about 200 lbs of gear with them. They are buying clothes there in Australia and started shopping for supplies such as lumber for tent flooring, tents, buying generators, fuel drums, 1000 liters of fuel, chairs, tables, etc... The rest of the crew arrives Wednesday, October 25th. Check out the pictures at: http://vk9ma.com/news

VP5, TURKS AND CAICOS ISLANDS. Zev, N2WKS, is now active as VP5/N2WKS from Harbour Rock, Providenciales Island (NA-002), until October 31st. Activity will be on various HF bands. QSL via LoTW only.

VR, HONG KONG. Alberto, IV3TAN, will once again be active as VR2XAN during the CQWW DX SSB Contest (October 28-29th) as a Single-Op/Single-Band (160m) entry. Activity outside of the contest is mostly on the Low Bands (40/80/160m on CW/SSB). He uses an Icom 756 Pro III with an Icom IC-2KL (400w) amp into a Crushcraft D4, rotary dipole 10-40 meters and Inverted V Kelman dipole 80/160 meters. QSL via: Alberto Annesi, 1/F, 7A Nam Shan Road, Peng Chau Island, Hong Kong.

YB0, INDONESIA. Karsono, YB0NDT, will be active during the CQWW DX SSB Contest (October 28-29th) as a Single-Op/Single-Band (15m)/High-Power entry. QSL via LoTW only. No Bureau. No QSL cards.

YJ, VANUATU. Operators Chris/VK2NYA and Mike/VK2BXE will once again be active as YJ0CA and YJ0MB, respectively, from Port Vila, Efate Island (OC-035), between November 1-7th. Activity will be on 40 and 20 meters SSB only. QSL via their home callsigns direct.

ZB2, GIBRALTAR. Robert, M0TTT/ZB2TT, announced that he will be in the CQWW DX SSB Contest (October 28-29th) as a Single-Op/All-Band/Low-Power entry. QSL ONLY via M0URX OQRS (Direct or Bureau) or LoTW.

ZC4, U. K. SOVEREIGN BASE AREAS ON CYPRUS (Reminder). By the time you read this, Adrian, G0KOM, is expected to once again be active as ZC4MK and has renewed his ZC4 license for next 12 months. He has not been here since 1991. Activity will be from the Avdimou Beach between October 27-31st, which will also include the CQWW DX SSB Contest (October 28-29th), if he can find a headset/mic. Look for more operations over the next year. QSL via his home callsign. Read his updates on QRZ.com.

ZM4, NEW ZEALAND. Members of the East Coast Contesters ZM4T/ZM2M Team will be active using the callsign, ZM4T, in the CQWW DX SSB Contest (October 28-29th) as a Multi-2 entry. Operators mentioned are: Alice/ZL2EM, Holger/ZL3IO, Tom/ZL2MY, Wayne/ZL2WG and Xenia/ZL4YL. QSL via ZL3IO direct, LoTW or ClubLog's OQRS. No Bureau QSLs. Visit the ZM4T Web page at: http://www.zm4t.com

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The following stations are expected to be active in the
CQ World Wide DX SSB Contest (October 28-29th, 2017)

Thanks to Bill, NG3K, for providing OPDX readers with the following consolidated listing of the participants in the 2017 CQWW DX SSB Contest. For a more detailed listing (and up-to-date changes/corrections) in HTML format, please visit Bill's Web page at:

http://www.ng3k.com/Misc/cqs2017.html (By callsign)
http://www.ng3k.com/Misc/cqsd2017.html (By entity)
http://www.ng3k.com/Misc/cqsz2017.html (By zone)

The CQ World-Wide DX Contest Web page and rules:
http://www.cqww.com/rules.htm

Contest Callsign	DXCC Entity	CQZ	Class	QSL Route
3V8SS	Tunisia	33	M/S	LoTW; QSL via LX1NO
3XY4D	Guinea	35	M/?	F5RAV (d)
4L2M	Georgia	21	SOSB 20M	EA7FTR
4L0A	Georgia	21	SOAB	LoTW
4S7AYG	Sri Lanka	22	M/S	M0URX
4S7KLG	Sri Lanka	22	SOAB HP	LoTW; QSL via EA5GL (C/e)
4S7BHG	Sri Lanka	22		OH2BH
4U1A	Austria	15	SOAB HP	UA3DX
4W/OZ1AA	Timor Leste	28	SOAB	OZ1ACB
5X8C	Uganda	37	SO	ON6NL
5Z4/LZ4NM	Kenya	37	SOAB	
6Y1LZ	Jamaica	08	M/?	LZ1JZ
6Y4V	Jamaica	08	M/2	LoTW; QSL via W4GE (d)
8P50B	Barbados	09	SOSB 20M	LoTW; QSL via KU9C (C)
8P5A	Barbados	09	SOAB HP	LoTW; QSL via HA1AG
9K2HN	Kuwait	21	M/S	LoTW
9K2K	Kuwait	21	SOAB	LoTW
9Y4D	Trinidad & Tobago	09	SOSB 15M	9Y4D
9Y4W	Trinidad & Tobago	09	M/S	
A25A	Botswana	38		NJ0F (d)
A31MM	Tonga	32	SOAB	LoTW; QSL via EA5GL
A44A	Oman	21	M/M	A47RS
A5A	Bhutan	22	M/?	JH1AJT; QSL via (C)
AC2AI/KH2	Guam	27	SOAB	LoTW; QSL via JJ2CJB
AH2R	Guam	27	M/?	LoTW
AH0K	Mariana Islands	27	M/2	LoTW; QSL via OH6GDX (C)
B1Z	China	23	M/?	EA7FTR
B4T	China	23		BA4TB
B7K	China	23		BA4EG
B9K	China	23	M/2	BA4EG
BM0DX	Taiwan	24	M/S	BM2JCC
BV2A/3	Taiwan	24	M/?	QSL via CRA, PO Box 117-254, Taipei, Taiwan

BW/JL3RDC	Taiwan	24	SOAB LP	JL3RDC
BW/JN3MXT	Taiwan	24	SOAB LP	JN3MXT
BW/JP3PZG	Taiwan	24	SOAB LP	JP3PZG
C4A	Cyprus	20	M/2	LoTW; QSL via 5B4KH (C)
C6ARW	Bahamas	08	SOAB LP	LoTW; QSL via N0HJZ (B/d)
CN2AA	Morocco	33	M/S	LoTW; QSL via UA2FM
CR5SSB	Portugal	14	M/S	CT1EOU
CR3Z	Madeira	33	M/S LP	CT3AB
D4C	Cape Verde Islands	35	SOSB 20M	
D4P	Cape Verde Islands	35	SO	LoTW
D4Z	Cape Verde Islands	35	SOSB 15M	
DA0WRTC	Germany	14	M/S	DJ9MH
DL/4X1DX	Germany	14	M/?	4X6OM
E44WE	Palestine	20	SOSB 15M	SP9FIH
ED7R	Spain	14	SOAB LP	LoTW; QSL via EA7GX
ED8W	Canary Islands	33	SOSB	EA8DO
EE5T	Spain	14	M/?	EA5URT
EF7T	Spain	14	M/S	EC7AKV
EF9R	Ceuta & Melilla	33	SO	LoTW; QSL via EA5KB
EI6JK	Ireland	14	SOAB	EI6JK
ES9C	Estonia	15	M/2	ES5RY
FG4KH	Guadeloupe	08		F1DUZ
FY5KE	French Guiana	09	M/S	LoTW; QSL via FY1FL (d)
GJ2A	Jersey	14	M/2	LoTW
GU3HFN	Guernsey	14	SOAB LP	GU3HFN (B)
HB0/DL5YM	Liechtenstein	14		
HC0E	Ecuador	10	M/M	HC1QRC
IO5O	Italy	15	M/S	IK5RLP
J68GD	St. Lucia	08		LoTW; QSL via K9AW (d)
JT5DX	Mongolia	23	M/2	JT1CO
KH7CW	Hawaii	31	M/S	LoTW; QSL via K2WR (B/d)
KH7M	Hawaii	31	SOAB	KH6ZM
MM1E	Scotland	14	SOAB LP	MM0GOR
OF5Z	Finland	15	M/S	LoTW
OH0X	Aland Island	15	SOAB HP	OH2TA
OP4K	Belgium	14	M/?	LoTW; QSL via OP4K (B/d)
P40T	Aruba	09	SOAB HP	VE3DZ
P40W	Aruba	09	SOAB	LoTW; QSL via N2MM (d & B cards)
P49Y	Aruba	09	SOAB	LoTW; QSL via AE6Y
PJ2T	Curacao	09	M/S	W3HNK
PJ4G	Bonaire	09	M/?	LoTW
PJ4K	Bonaire	09	M/2	
PJ4Q	Bonaire	09	M/2	W4PA
PS2T	Brazil	11	SOAB HP	LoTW
PX2A	Brazil	11	M/2	
PZ5K	Surinam	09	M/?	
SI9AM	Sweden	14	M/?	SM3TIR; QSL also via ON3UN
T8ED	Palau	27	SOAB	LoTW
TF3CW	Iceland	40	SOSB 40M	LX1NO
TF3JB	Iceland	40	SOSB 80M	
TK9R	Corsica	15	SOAB	IK8UND
TO5A	Martinique	08	M/2	LoTW; QSL via F5VHJ (d/REF-B/C); USA QSLs by WA6WPG
V26B	Antigua & Barbuda	08	M/M	LoTW; QSL via KA2AEV (d)
V31VP	Belize	07	SOAB HP	WB0TEV (B/d/C)
V47JA	St. Kitts & Nevis	08	SOAB	LoTW; QSL via W5JON (d)

V51/TA1HZ	Namibia	38	SO	LZ3HI
VA2ZM	Canada	02	M/S	VE2PGI
VE2IDX	Canada	02	SOAB	VE3ZF
VK9CZ	Cocos Keeling	29	M/2	N3SL
VP2MDG	Montserrat	08	M/S	K2DM (d)
VP5W	Turks & Caicos	08	M/?	LoTW; QSL via KD3TB
VR2FUN	Hong Kong	24	M/S	VR2FUN
VR2XAN	Hong Kong	24	SOSB 160M	VR2XAN
VY0ERC	Canada	02	M/?	M0OXO
YB0NDT	Indonesia	28	SOSB 15M	LoTW only
YE2A	Indonesia	28	M/?	LoTW
ZB2TT	Gibraltar	14	SOAB LP	
ZC4MK	Cyprus SBA	20		G0KOM
ZF2ZE	Cayman Islands	08	SO	LoTW; QSL via NE8Z
ZF9CW	Cayman Islands	08	SOAB	LoTW; QSL via K5GO (d)
ZM4T	New Zealand	32	M/2	LoTW; QSL via ZL3IO
ZX5J	Brazil	11	SOAB	NZ4DX

(e) eQSL only (d) direct only (B) Bureau only (*-B) DX's- Bureau
(O) OQRS only (C) ClubLog only (L) LoTW only

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